

WHAT IS CLAIMED IS:

1. An ink jet recording element comprising a support having
5 thereon an image-receiving layer comprising porous polymeric particles in a
polymeric binder, said polymeric binder comprising poly(vinyl alcohol) having a
degree of hydrolysis of at least about 95% and having a number average
molecular weight of at least about 45,000.
- 10 2. The element of Claim 1 wherein said porous polymeric particles
have a median diameter of less than about 10 μm .
3. The element of Claim 1 wherein said porous polymeric particles
have a median diameter of less than about 1 μm .
- 15 4. The element of Claim 1 wherein said porous polymeric particles
are crosslinked and have a degree of crosslinking of about 27 mole % or greater.
5. The element of Claim 1 wherein said porous polymeric particles
20 are made from a styrenic or an acrylic monomer.
6. The element of Claim 5 wherein said acrylic monomer
comprises methyl methacrylate or ethylene glycol dimethacrylate.
- 25 7. The element of Claim 1 wherein said poly(vinyl alcohol) has a
degree of hydrolysis of at least about 98%.
8. The element of Claim 1 wherein said support is paper or a
voided plastic material.
- 30 9. The element of Claim 1 wherein the porosity of said porous
polymeric particles is achieved by mixing a porogen with the monomers used to

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make said polymeric particles, dispersing the resultant mixture in water, and polymerizing said monomers to form said porous polymeric particles.

5 10. The element of Claim 1 wherein said porous polymeric particles have a surface area of at least about 35 m²/g.

11. The element of Claim 1 wherein said porous polymeric particles have a surface area of at least about 100 m²/g.

10 12. The element of Claim 1 wherein said image-receiving layer contains from about 0.20 to about 10.0 g/m² of said poly(vinyl alcohol) binder and from about 1.5 to about 60 g/m² of said porous polymeric particles.

15 13. The element of Claim 1 wherein said image-receiving layer contains from about 0.40 to about 5.0 g/m² of said poly(vinyl alcohol) binder and from about 3.0 to about 30 g/m² of said porous polymeric particles.

20 14. The element of Claim 1 wherein said poly(vinyl alcohol) has a number average molecular weight from about 70,000 to about 105,000.

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